SDCS-ER-76-117

SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Kansu Province, China, 17 October 1976

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February 1978

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REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

1. REPORT NUMBER (14) SDCS-ER-76-117	2. GOVT ACCESSION NO. / OR
3. RECIPIENT'S CATALOG NUMBER (9)	
4. TITLE (and Subtitle) (6) SPECIAL DATA COLLECTION SYSTEM (SDCS) Event Report, Kansu Province, China, 17 October 1976,	5. TYPE OF REPORT & PERIOD COVERED Technical rept.,
	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) (10) Michael S. Dawkins	8. CONTRACT OR GRANT NUMBER(s) (15) F08606-78-C-0007, ARPA Order-2551
9. PERFORMING ORGANIZATION NAME AND ADDRESS Teledyne Geotech 314 Montgomery Street Alexandria, Virginia 22314	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS VT/8709
11. CONTROLLING OFFICE NAME AND ADDRESS Defense Advanced Research Projects Agency Nuclear Monitoring Research Office 1400 Wilson Blvd., Arlington, Virginia 22209 (11)	12. REPORT DATE 21 February 1978
	13. NUMBER OF PAGES 6
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) VELA Seismological Center 312 Montgomery Street Alexandria, Virignia 22314 (12) 7p.	15. SECURITY CLASS. (of this report)
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

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405 601

SDCS Event Report No. 117

Kansu Province, China, 17 October 1976

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	No published bulletin					
LASA	05:13:06.6	unpublished	46.6N	092.6E	5.5	N/A
Hagfors	05:08:38	04:59:35	42N	095E	5.0	N/A

Beginning with this report, a format change goes into effect. It is felt that since these reports are not accomplished for the same reasons as are bulletins, and that the events are already accurately located in the majority of instances, that hypocenter locations using SDCS stations are redundant and time wasting. Likewise, amplitude and period measurements will not be made. A set of magnification response curves for the various station and instrument types will be published along with a copy of Gutenberg and Richter's "B" Factor tables so that the readers may determine period corrected amplitude and m_b if they desire. Long period magnitude (M_s) is determined according to the following formula -- $M_s = \log_{10}(A/T) + .66(\log_{10}\Delta^{o})$.

In place of the "HYPOCENTER DETERMINATION" you will find a prediction arrival table based on published epicenter information. The times are determined using 68 Herrin travel times.

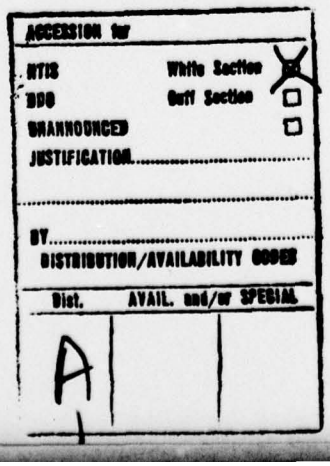
Also beginning with this report, NORSAR has ceased the publication of a bulletin. These reports will include their data upon resumption of a published bulletin.

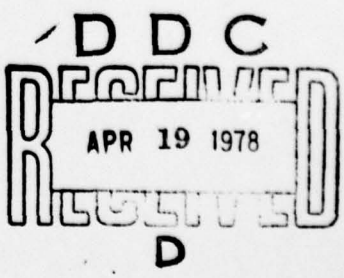
All SDCS stations were operational during this time period, although only one, RK-ON, recorded a positive signal for the event. Horizontal channels were rotated.

Long-period was negative at all SDCS stations.

Only NORSAR short-period waveform data could be recovered from the SDAC/VELA detection processor.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response)





STATION DESCRIPTION

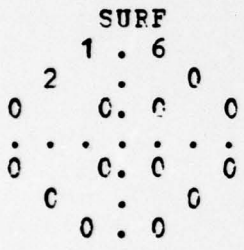
SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION SHORT-PERIOD	LONG-PERIOD
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	KS36000	KS36000
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
OB2NV	Nevada Test Site	37 13 31.0 N 116 03 28.0 W		18300	N/A
NT-NV	Nevada Test Site	31 16 33.0 N 116 25 06.0 W		18300	N/A
NT2NV	Nevada Test Site	37 15 16.0 N 116 18 13.0 W		18300	N/A
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H

PREDA -- TRAVEL TIME PREDICTIONS --

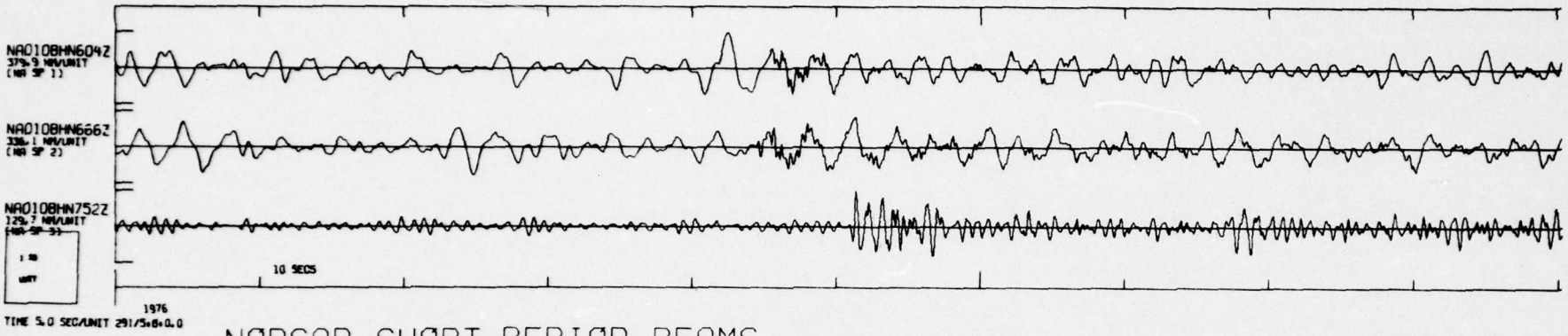
17OCT INPUT FOR EVENT 17 OCT 76
05:00:00.0 42.000N 95.000E 0KM.

STA.		TIME	SURF(CKM.) TRAV.TIME	DIST DEG.	KM.	AZI EVT-STA	STA-EVT
HFS	P	05 08 60.0	8:6C.C	50.69	5636.2422	320.250	72.233
NAO	P	05 09 08.4	9:08.4	51.81	5761.2187	321.670	70.635
RK-ON	P	05 12 47.1	12:47.1	87.23	9699.6602	5.492	353.539
LAO	P	05 12 59.0	12:59.0	89.70	9974.2812	14.430	344.346
HN-ME	P	05 13 04.7	13:04.7	90.9210110.0703		348.264	12.599
NT-NV	P	05 13 28.8	13:28.8	96.0510680.0547		24.718	337.000
NT2NV	P	05 13 29.1	13:29.1	96.1110686.9375		24.628	337.090
OB3NV	P	05 13 29.5	13:29.5	96.2010697.0469		24.465	337.247
OB2NV	P	05 13 29.5	13:29.5	96.2110697.6992		24.471	337.244

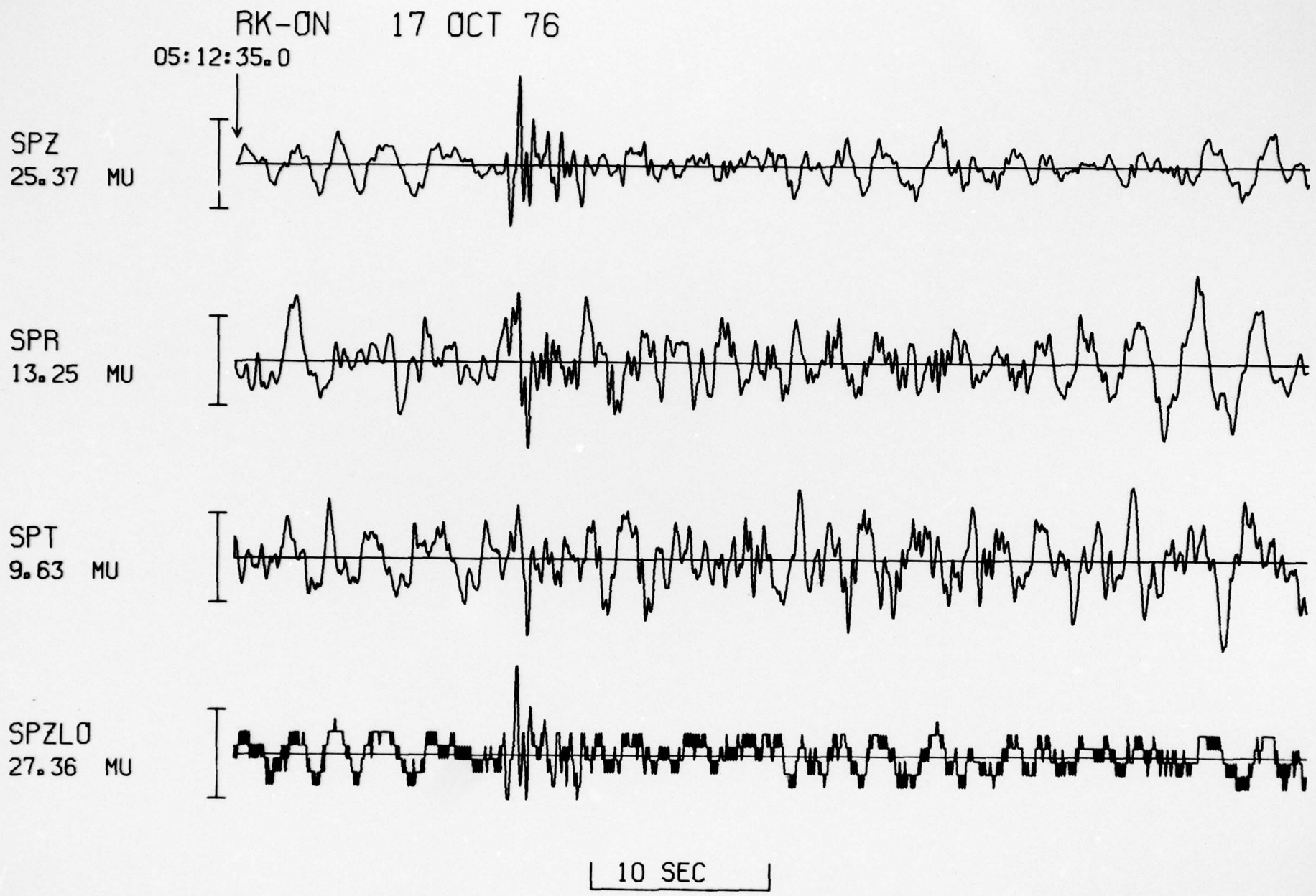
67 HERRIN TRAVEL TIME TABLES



95 PERCENT CONFIDENCE ON DEPTH CHISQUARE WITH DISTANCE VARIANCE = ± 0.000



NORSAR SHORT PERIOD BEAMS


RK-ON 17 OCT 76
05:12:35.0
SPZ
25.37 MU
SPR
13.25 MU
SPT
9.63 MU
SPZLO
27.36 MU
10 SEC